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## FOREIGN TECHNOLOGY DIVISION

Author: Dolenko, A., special correspondent (Brovary, Kiyev Oblast)

Title: BROVARY POWDER METALLURGY PLANT UPGRADES PRODUCTION

Primary source: Izvestiya, December 30, 1979, No. 305 (19370), p. 1, cols. 6-7

Extract: The Brovary Powder Metallurgy Plant has mastered the production of almost 14,000 products.

"Powder metallurgy," relates A. Gayduchenko, chief engineer of the plant, "has an important role in the development of materials which make the further advance of technical progress possible."

More than 200 enterprises of various industries use the Brovary plant's products. The plant's production is currently being updated. A transition is being made to new technology for producing iron powders by the method of spraying molten metal using compressed air.

Together with the Ukrainian Academy of Sciences' Institute of Materials Science Problems, the All-Union Production Association "Soyuzspetsstal'" and the Ukrainian State Institute for the Planning of Metallurgical Plants ("Ukrgipromez"), the plant's specialists have implemented a complex of scientific research, planning, design and organizational measures. As a result of this extensive work, the country's first specialized production of clutch disks for tractors and automobiles by the method of powder metallurgy has been put into industrial operation in one of the plant's shops.

The organization of mass production of clutch disks in Brovary has made

it possible to increase their service life by three to four times.

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Author: Kleva, A., correspondent (Irkutsk and Ulan-Ude)

Title: HUGE RADIO TELESCOPE IN SIBERIA FOR SOLAR STUDIES

Primary source: Izvestiya, December 30, 1979, No. 305 (19370), p. 6, cols. 1-2

Entire text: A large radio astronomy center is being created in Siberia. It already has facilities in operation near Irkutsk and near the high-mountain Buryat village of Mondy. Next year, the western arm of one of the largest radio telescopes for solar research in the world will go into service in the spurs of the Eastern Sayan Mountains. It will make it possible to conduct routine research of geophysical processes in the sun's atmosphere.

The Badarskiy radio telescope is being built in the Tunkinskaya Valley of Buryatiya. It was here that specialists found the area needed. Resting on a 100-meter cushion of sand, the area hardly reacts to vibrations of the earth's crust; it absorbs them. There are high mountains here, and no industrial facilities.

The Siberian giant possesses high resolution. Its 256 reflector antennas are arranged in four 620-meter arms directed at the solar system. They will keep the sun in the field of vision throughout the daylight period and will make it possible to photograph as many as 10,000 separate points on it.

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(continued next page)

simultaneously. The signals received will be sent through a 180-channel receiver to an underground laboratory for processing. Two and a half to three minutes later, a computer will construct and issue a map of the radio measurements. It should be noted here that at the present time such a map takes four to five hours to produce. For the sun, information this old is too late -- the processes on it have long since changed.

"When the new radio telescope goes into service," said V. Urbanovich, scientific secretary of the Institute of Earth Magnetism, the Ionosphere and Propagation of Radio Waves of the USSR Academy of Sciences' Siberian Branch, "specialists will be able to compile very accurate forecasts of solar activity and of the occurrence of powerful storms on the sun. These data are necessary to science and the economy."

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Title: V. V. FOMIN (obituary) *PC*

Primary source: Izvestiya, December 30, 1979, No. 305 (19370), p. 6, col. 8

Entire text: Vladimir Vladimirovich Fomin, a corresponding member of the USSR Academy of Sciences and a prominent scientist in the field of inorganic chemistry, died December 27, 1979, at the age of 70.

The announcement is made with deep regret by the presidium and the Department of General and Technical Chemistry of the USSR Academy of Sciences, and by the USSR State Committee for the Use of Atomic Energy and its All-Union Scientific Research Institute of Inorganic Materials. Sincere condolences are expressed to the relatives and friends of the deceased.

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Title: NEW MEMBERS OF UKRAINIAN ACADEMY OF SCIENCES *PC*

Primary source: Pravda Ukrainskaya, December 27, 1979, No. 296 (11474), p. 2, col. 8

Extract: The general assembly of the Ukrainian Academy of Sciences, which completed its work on December 26, 1979, has elected full members

(academicians) and corresponding members of the Ukrainian Academy of Sciences.

The following were elected full members (academicians) of the Ukrainian Academy of Sciences:

in the Department of Mathematics, Mechanics and Cybernetics -- Nikolay Gerasimovich Bondar', Valentin Nikitich Poturayev, Valeriy Trofimovich Troshchenko;

in the Department of Physics and Astronomy -- Yakov Borisovich Faynberg, Viktor Petrovich Shestopalov;

in the Department of Earth Sciences -- Grigorii Nazarovich Dolenko, Anatoliy Vasil'yevich Chekunov, Nikolay Petrovich Shcherbak;

in the Department of Physical-Technical Problems of Power Engineering -- Feodosiy Borisovich Grinevich;

in the Department of Chemistry and Chemical Engineering -- Anatoliy Semenovich Berezhnoy.

The following were elected corresponding members of the Ukrainian Academy of Sciences:

in the Department of Mathematics, Mechanics and Cybernetics -- Boris Nikolayevich Bublik, Yuriy Aleksandrovich Vetrov, Viktor Vasil'yevich Pilipenko, Igor' Vladimirovich Skrypnik;

in the Department of Physics and Astronomy -- Igor' Kondrat'yevich Yanson, Yaroslav Stepanovich Yatskiv;

in the Department of Earth Sciences -- Yuriy Petrovich Mel'nik, Ivan Il'ich Chebanenko, Leonid Vasil'yevich Cherkesov;

in the Department of Physical-Technical Problems of Materials Science -- Gennadiy Danilovich Dibrov, Nikolay Vasil'yevich Novikov;

in the Department of Chemistry and Chemical Engineering -- Aleksey Alekseyevich Chuyko.

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Title: UKRAINIAN ACADEMY MEETING SURVEYS TASKS OF BASIC SCIENCE, ELECTS NEW OFFICERS *PC*

Primary source: Pravda Ukrainskaya, December 27, 1979, No. 296 (11474), p. 4, cols. 7-8

Abstract: The article is a report of the latest session of the general assembly of the Ukrainian Academy of Sciences, which completed its work on